SAMSUNG

42inch Security LCD Monitor STM-42L Instruction Manual

Thank you for choosing this Samsung 42inch Security LCD Monitor product.
Before attempting to connect or operate this product, please read the instructions contained in this manual carefully.
Please save this instruction manual for future reference.

ENGLISH

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IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.
2) Keep these Instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers,stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug.
   Apolarized plug has two blades with one wider than the other.
   Agrounding type plug has two blades and a third grounding prong.
   The wide blade or the third prong are provided for your safety.
   If the provided plug does not fit into your outlet, consult an electrician for replacement of the bsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11) Only use attachment/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus the apparatus has been exposed to rain or moisture does not operate normally or has been dropped.

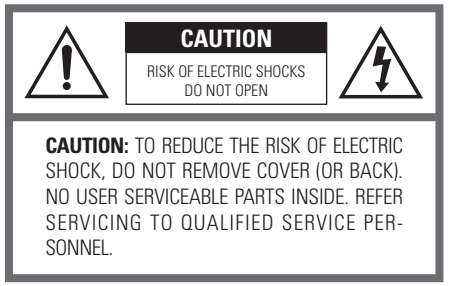
SAFETY INSTRUCTION

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed no the apparatus.

- Minimum distances(e.g. 10cm) around the apparatus for sufficient ventilation.

"WARNING - To reduce the risk of fire or electric shock, do not expose the apparatus to rain or moisture."

"The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus."



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of suffcient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

CAUTIONS

The power supply cord is used as the main disconnect device, ensure that the socket-outlet is located/installed near the equipment and is easily accessible.

ATTENTION

Le cordon d`alimentation est utillsé comme interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et être facile d`accès

CAUTION TO SERVICE PERSONNEL

POWER SUPPLY CORD IS USED AS MAIN POWER DISCONNECT DEVICE IN THIS PRODUCT. UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE REMOVING THE BACK COVER AND SERVICING

EMISSION CHARACTERISTICS TESTED BY SEMKO

THIS PRODUCT HAS BEEN TESTED AND HAS SHOWN COMPLIANCE WITH THE NATIONAL SPECIFICATIONS SUCH AS SWEDISH MPR 1990. 10. (MPR II)

- **NEVER REMOVE THE BACK COVER**
  Removal of the back cover should be carried out only by qualified personnel.
- **DO NOT USE IN HOSTILE ENVIRONMENTS**
  To prevent shock or fire hazard, do not expose the unit to rain or moisture.
  This unit is designed to be used in the office or home. Do not subject the unit to vibrations, dust of corrosive gases.
- **KEEP IN A WELL VENTILATED PLACE**
  Ventilation holes are provided on the cabinet to prevent the temperature from rising.
  Do not cover the unit or place anything on the top of unit.
- **AVOID HEAT**
  Avoid placing the unit in direct sunshine or near a heating appliance.
- **TO ELIMINATE EYE FATIGUE**
  Do not use the unit against a bright back ground and where sunlight or other light sources will shine directly on the monitor.
- **BE CAREFUL OF HEAVY OBJECT**
  Neither the monitor itself nor any other heavy object should rest on the power cord.
  Damage to a power cord can cause fire or electrical shock.

FCC RF INTERFERENCE STATEMENT

NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technician for help.
- Only shielded interface cable should be used.

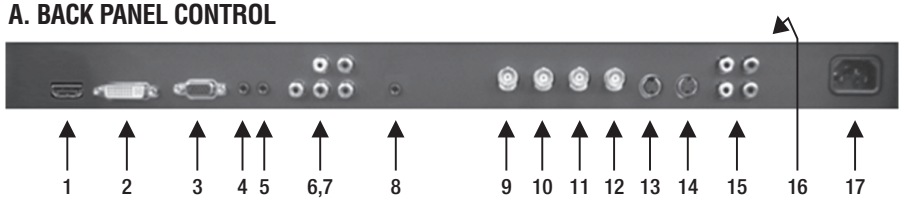
Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

▶ **DOC COMPLIANCE NOTICE**

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.

CONNECTING WITH EXTERNAL EQUIPMENT

A. BACK PANEL CONTROL

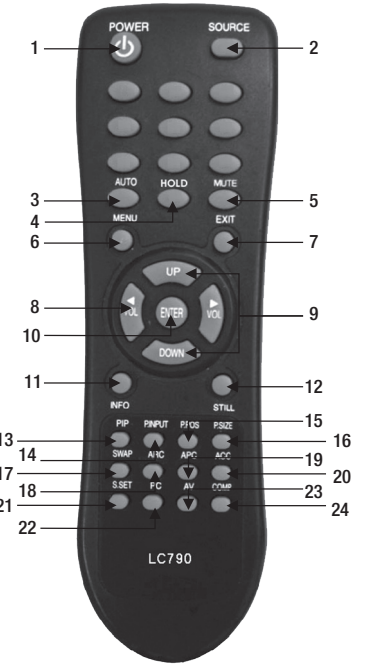


1. HDMI IN
2. DVI IN
3. PC VGA IN
4. PC STEREO IN
5. AUDIO OUT
6. COMPONENT IN
7. COMPONENT AUDIO L/R IN
8. Trigger Input
9. AV 1 IN : Composite signal input for AV 1
10. AV 1 OUT : Video looping out for AV 1
11. AV 2 IN : Composite signal input for AV 2
12. AV 2 OUT : Video looping out for AV 2
13. S-VIDEO IN : Y/C separated signal input
14. S-VIDEO OUT : Y/C separated signal looping out
15. AV 2 AUDIO L/R IN : Audio L/R input. This input is for AV 2
16. AV 1, SVIDEO AUDIO L/R IN : Audio L/R input. This input is for AV 1, S-VIDEO
17. AC POWER IN

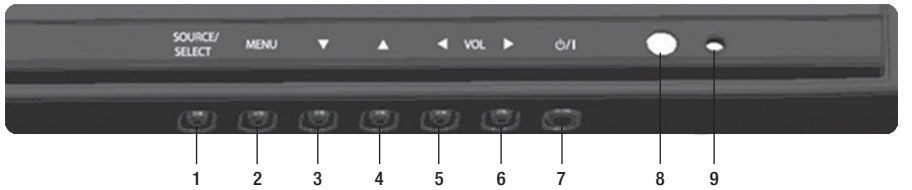
REMOTE FUNCTIONS

B. REMOTE CONTROLLER

1. POWER(⏻) : Turn the power ON or OFF. There will be a few seconds delay before the display appears.
2. SOURCE : Select pc or video(AV1/AV2/S-Video/Component/ HDMI/DVI/PC) sources.
3. AUTO : Auto geometry adjustment in PC Source.
4. HOLD : Stop the Trigger & Auto switching functions.
5. MUTE : Mute the sound.
6. MENU : Activates and exits the On Screen Display.
7. EXIT : Exit the On Screen Display.
8. VOL(◀ ▶) : Increases or decreases the level of audio volume.
9. UP/DOWN : Move to OSD menu.
10. SOURCE/SELECT : Accept your selection or displays the current mode.
11. INFO : Input mode information Display.
12. STILL : Stop the picture.
13. PIP (Picture In Picture) : Activate PIP mode.
14. P.INPUT : Select PC or video source.
15. P.POS : Move the position of sub picture for PIP mode.
16. P.SIZE : Change the size of sub and main picture for PIP mode.
17. SWAP : Alternates between main and sub picture.
18. ARC (Aspect Ratio Control) : Select screen ratio.
19. APC (Auto Picture Control) : Select picture mode.
20. ACC (Auto Color Control) : Select Colour mode.
21. S.SET : Select Sound mode main input or sub input
22. PC : Select PC mode(PC, DVI & HDMI).
23. AV : Select AV mode.(AV1, AV2 & S-VIDEO).
24. COMP : Select COMPONENT mode.



CONTROLS AND FUNCTIONS



C. FRONT KEY CONTROL

1. SOURCE/SELECT : Select PC or video. Select On Screen Display menu.

2. MENU : Activate and exit the On Screen Display.

3/4. ▼ / ▲ : These buttons allow user to enter the sub-menu of the activated function.
The up (▲) button is HOLD function and stop the Trigger & Auto switching functions.

5/6. VOL ◄/VOL ► : Adjust the volume and menu settings.

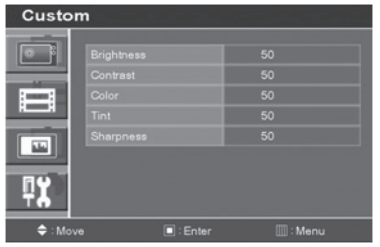
7. POWER ON/OFF(⏻ / I)
Turns the power ON or OFF. There will be a few seconds delay before the display appears.

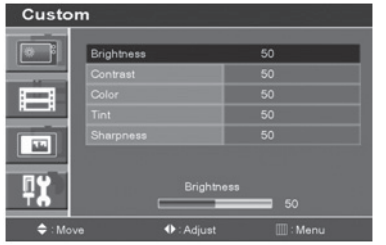
8. IR Sensor : Remote controller sensor.

9. POWER LED : The power LED lights with green when the power is turned ON.
The power is turned off by pressing the power switch again and the power LED goes Red.

• OSD MENU DESCRIPTION

A. CUSTOM MENU (Only Video Input)





1) Press the MENU button and then press the up(▲) or down(▼) button to select the Custom
2) Press the up(▲) or down(▼) button to select the sub menu.
3) Press the left(◄) or right(►) button to adjust the picture setting.
4) Press the MENU button to save.

· **Brightness :** Increase or decrease the intensity of the image.

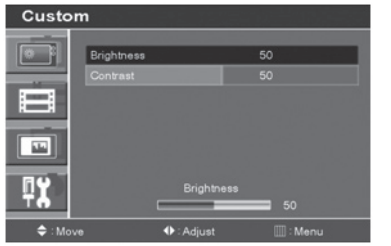
· **Contrast :** Increase or decrease the intensity (lightness or dimness) of the image.

· **Color :** Increase or decrease the colour of the picture.

· **Tint :** Increase or decrease the tint of the picture.

· **Sharpness :** Increase or decrease the sharpness of the picture.

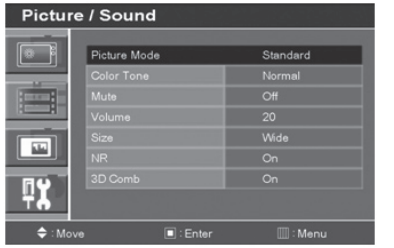
A. CUSTOM MENU (For HDMI, DVI & PC Input)

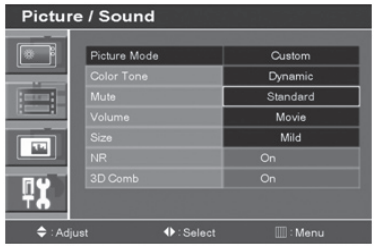


1) Press the MENU button and then press the up(▲) or down(▼) button to select the Custom.
2) Press the up(▲) or down(▼) button to select the sub menu.
3) Press the left(◄) or right(►) button to adjust the picture setting.
4) Press the MENU button to save.

B. Picture / Sound Menu (Only Video Input)

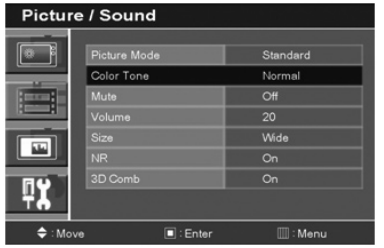
1. Picture Mode

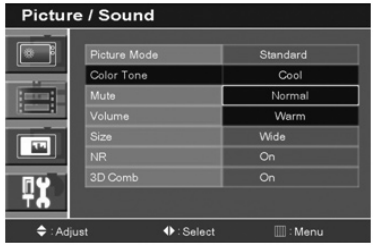




1) Press the MENU button and then press the up(▲) or down(▼) button to select the Picture / Sound.
2) Press the right(►) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Picture Mode.
4) Press the right(►) or SOURCE/SELECT button.
5) Press the up(▲) or down(▼) button to select the Picture Mode option.
6) Press the MENU button to save

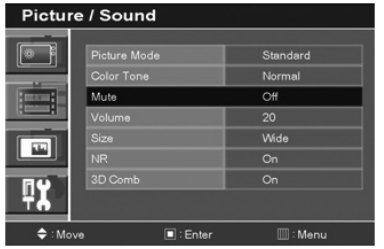
2. Color Tone

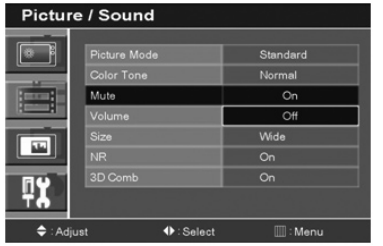




1) Press the up(▲) or down(▼) button to select the Color Tone.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Color Tone option.
4) Press the MENU button to save.

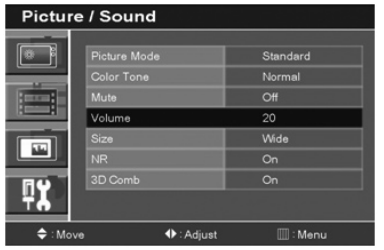
3. Mute





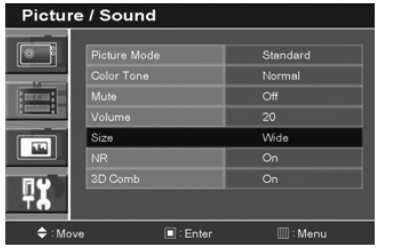
1) Press the up(▲) or down(▼) button to select the Mute.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the On or Off.
4) Press the MENU button to save.

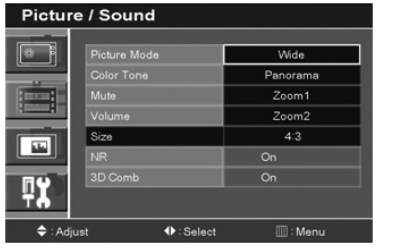
4. Volume



1) Press the up(▲) or down(▼) button to select the Volume
2) Press the left(◀) or right(▶) button to adjust Volume setting.
3) Press the MENU button to save.

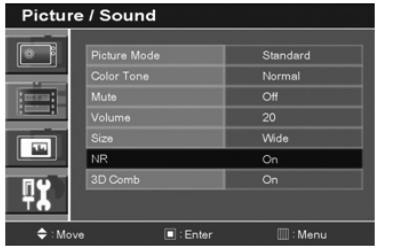
5. Size

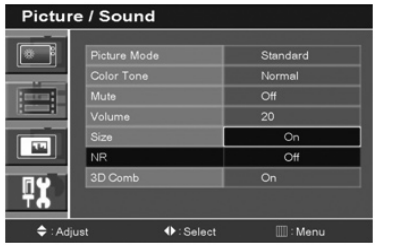




1) Press the up(▲) or down(▼) button to select the Size
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Size option.
4) Press the MENU button to save.

6. NR (Noise Reduction)

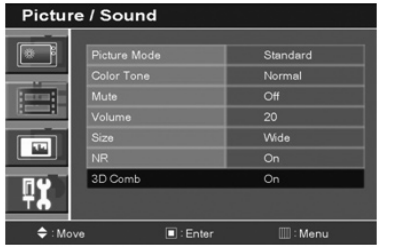


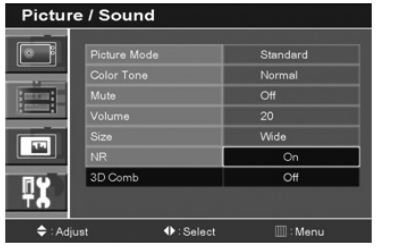


1) Press the up(▲) or down(▼) button to select the NR.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the On or Off.
4) Press the MENU button to save.

7. 3D Comb filter

When used with a 3D comb filter, reduces color bleeding and graphic noise drastically for softer, clearer, and higher-contrast images.

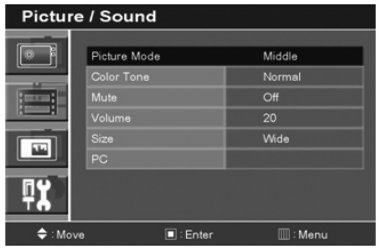


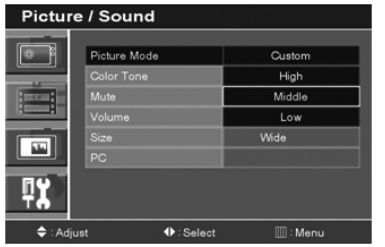


1) Press the up(▲) or down(▼) button to select the 3D Comb.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the On or Off.
4) Press the MENU button to save.

B. Picture / Sound Menu (For HDMI, DVI & PC Input)

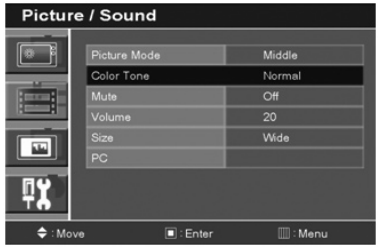
1. Picture Mode

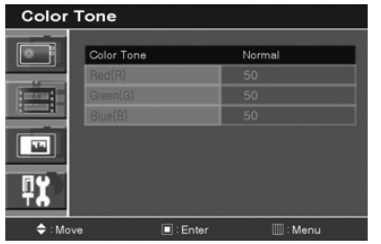




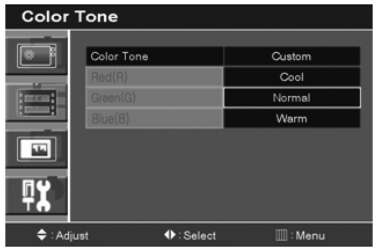
1) Press the MENU button and then press the up(▲) or down(▼) button to select the Picture/Sound.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Picture Mode.
4) Press the right(▶) or SOURCE/SELECT button.
5) Press the up(▲) or down(▼) button to select the Picture Mode option.
6) Press the MENU button to save.

2-1. Color Tone



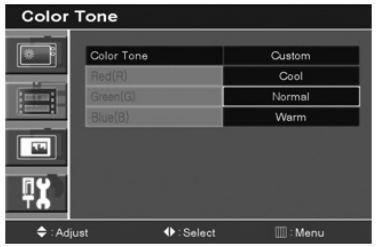


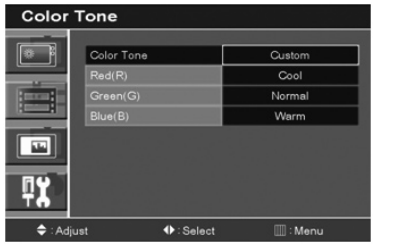
1) Press the up(▲) or down(▼) button to select the Color Tone.
2) Press the right(▶) or SOURCE/SELECT button.



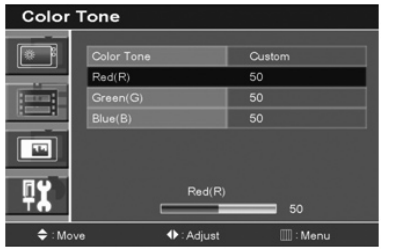
3) Press the left(▶) or SOURCE/SELECT button again.
4) Press the up(▲) or down(▼) button to select the Color Tone option.
5) Press the MENU button to save.

2-2. Color Tone (Custom)



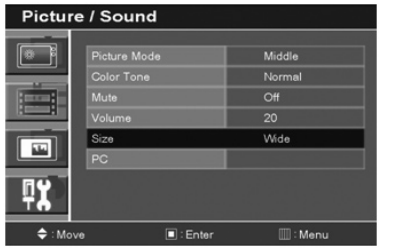


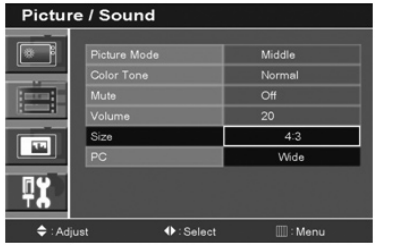
1) Press the up(▲) or down(▼) button to select the Custom in the Color Tone.
2) Press the Menu button to save.



3) Press the up(▲) or down(▼) button to select the Red(R), Green(G) or Blue(B).
4) Press the left(◀) or right(▶) button to adjust color density.
5) Press the MENU button to save.

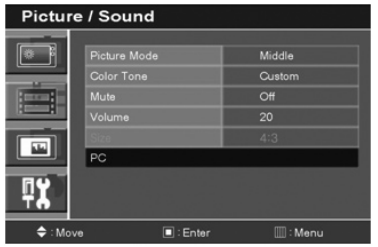
3. Size

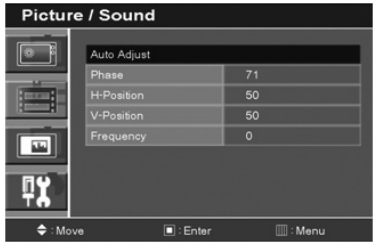




1) Press the up(▲) or down(▼) button to select the Size.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Size option.

4. PC control (Only PC Input)

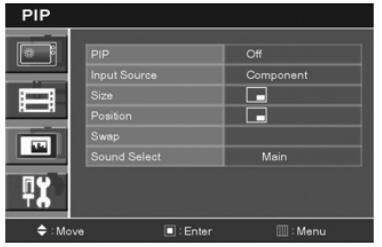




1) Press the up(▲) or down(▼) button to select the PC.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the PC sub menu.
4) Press the right(▶) or SOURCE/SELECT button.
5) Press the left(◀) or right(▶) button to adjust the PC setting.
6) Press the MENU button to save.

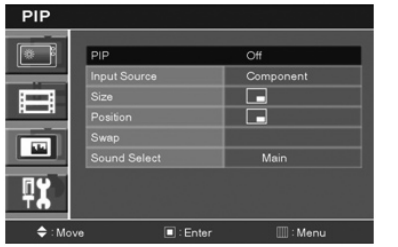
- Auto Adjust : Auto geometry adjustment.
- Phase : Adjust the number of horizontal picture elements.
- H-Position : Move image horizontally on screen right or left.
- V-Position : Move image vertically on screen up or down.
- Frequency : Adjust the vertical noise of screen image.

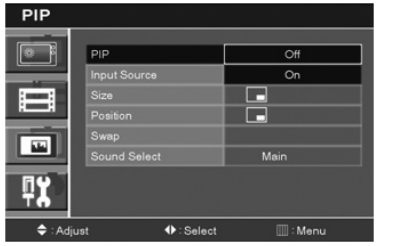
C. PIP MENU (Only Video Input)



1) Press the MENU button and then press the up(▲) or down(▼) button to select the PIP.

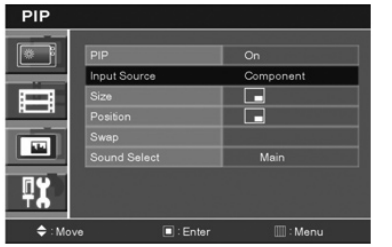
1. PIP

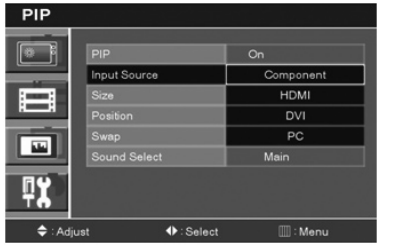




1) Press the right(▶) or SOURCE/SELECT button.
2) Press up(▲) or down(▼) button to select the On or Off.
3) Press the MENU button to save.

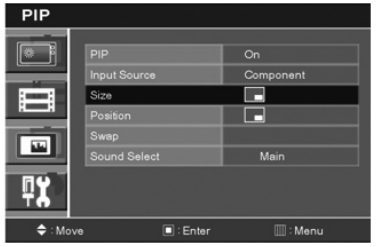
2. Input Source

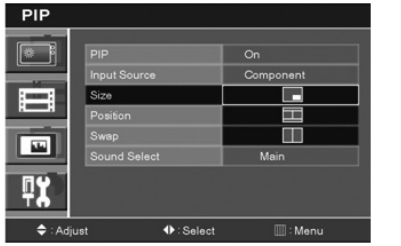




1) Press the up(▲) or down(▼) button to select the Input Source.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Source option.
4) Press the MENU button to save.

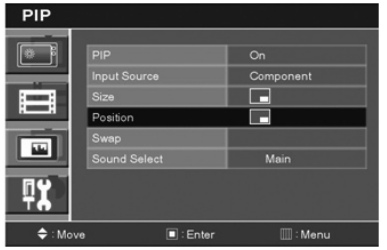
3. Size

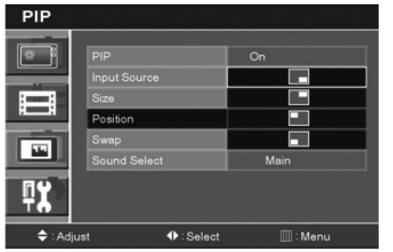




1) Press the up(▲) or down(▼) button to select the Size.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Size option.
4) Press the MENU button to save.

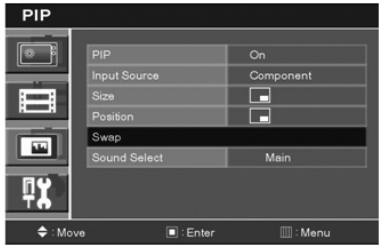
4. Position





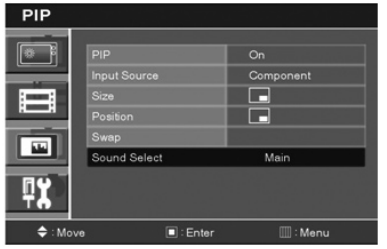
1) Press the up(▲) or down(▼) button to select the Position.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Position option.
4) Press the MENU button to save.

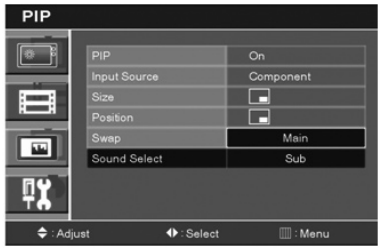
5. Swap



1) Press the up(▲) or down(▼) button to select the Swap.
2) Press the right(▶) or SOURCE/SELECT button to swap the main image for the sub one.

6. Sound Select

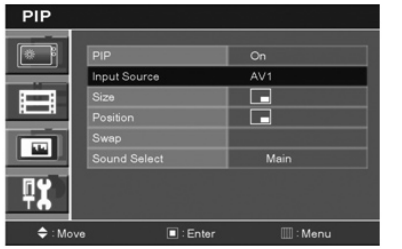


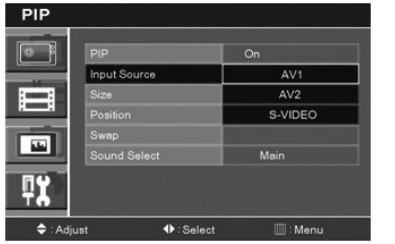


1) Press the up(▲) or down(▼) button to select the Sound Select.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Sound Select option.
4) Press the MENU button to save.

C. PIP MENU (For HDMI, DVI & PC Input)

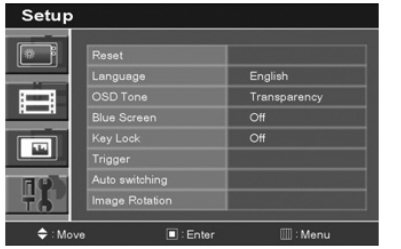
1. Input Source





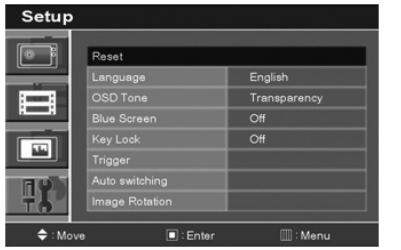
1) Press the up(▲) or down(▼) button to select the Input Source.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Input Source option.
4) Press the MENU button to save.

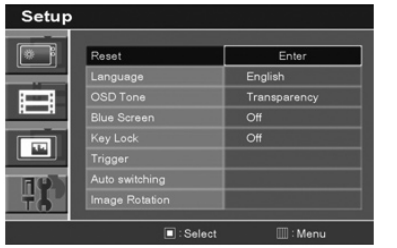
D. SETUP MENU



1) Press the MENU button and then press the up(▲) or down(▼) button to select the Setup.

1. Reset



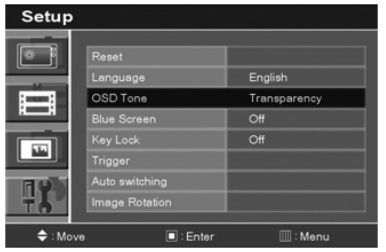


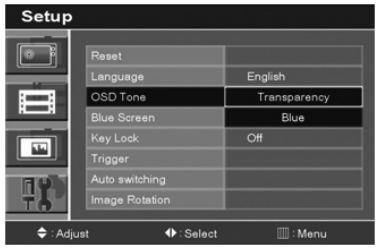
1) Press the right(▶) or SOURCE/SELECT button
2) Press the right(▶) or SOURCE/SELECT button again.
3) Press SOURCE/SELECT button to execute the reset.
· **Reset :** All settings go to the factory initialization.

2. Language

1) Press the up(▲) or down(▼) button to select the Language.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select language.
4) Press the MENU button to save.

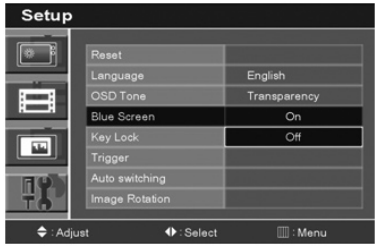
3. OSD Tone





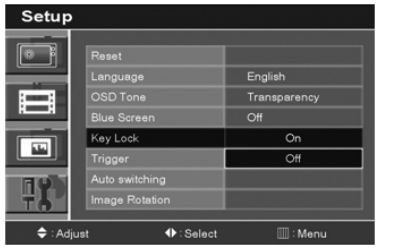
1) Press the up(▲) or down(▼) button to select the OSD Tone.
2) Press the right(▶) or SOURCE/SELECT button
3) Press the up(▲) or down(▼) button to select the OSD Tone option.
4) Press the MENU button to save.

4. Blue Screen



1) Press the up(▲) or down(▼) button to select the Blue Screen.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the On or Off.
4) Press the MENU button to save.

5. Key Lock



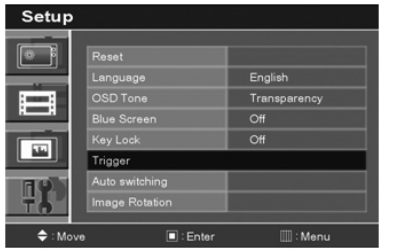
1) Press the up(▲) or down(▼) button to select the Key Lock.
2) Press the right(▶) or SOURCE/SELECT button
3) Press the up(▲) or down(▼) button to select the On or Off.
4) Press the MENU button to save.

※ How to unlock

❶ On the front key: Press the SOURCE/SELECT and MENU button at the same time over 3 seconds.
❷ On the Remote Controller: The Remote Controller operates well because the Key Lock function is only allowed for the front key of this product.

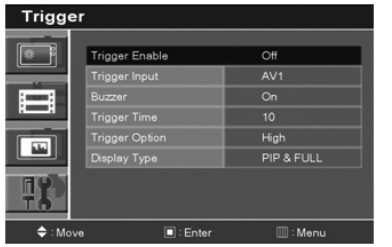
6. Trigger

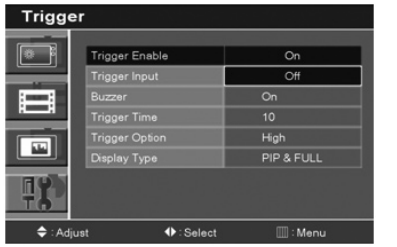
Checks the alarm and signal change of external electronic devices (DVRs, Cameras, etc.) and displays them on the monitoring screen.



1) Press the up(▲) or down(▼) button to select the Trigger.
2) Press the right(▶) or SOURCE/SELECT button.

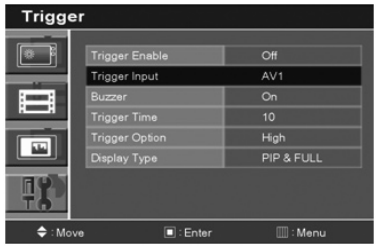
6-1. Trigger Enable

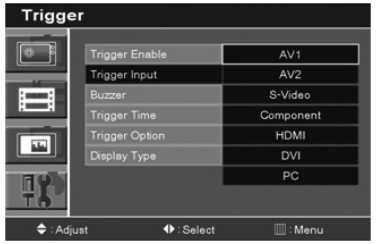




1) Press the up(▲) or down(▼) button to select the Trigger Enable.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the On or Off.
4) Press the Menu button to save.

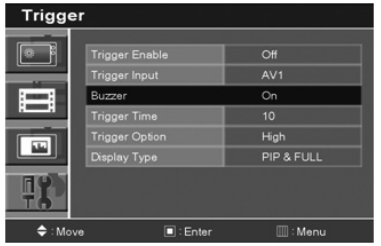
6-2. Trigger Input

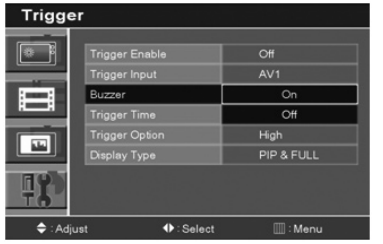




1) Press the up(▲) or down(▼) button to select the Trigger Input .
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Trigger Input option.
4) Press the Menu button to save.

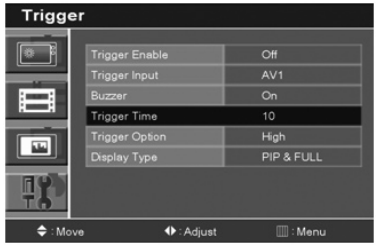
6-3. Buzzer





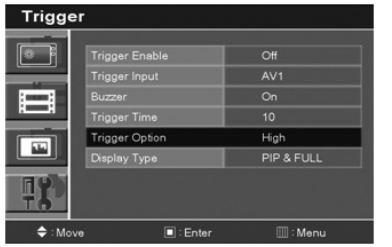
1) Press the up(▲) or down(▼) button to select the Buzzer.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the On or Off.
4) Press the Menu button to save.

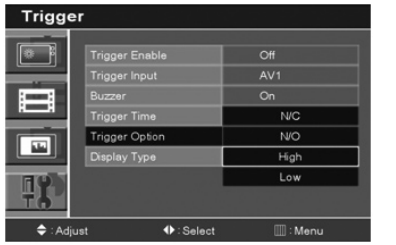
6-4. Trigger Time



1) Press the up(▲) or down(▼) button to select the Trigger Time.
2) Press left(◀) or right(▶) button to adjust Trigger Time setting.
3) Press the MENU button to save.

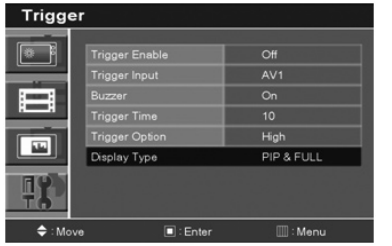
6-5 Trigger Option

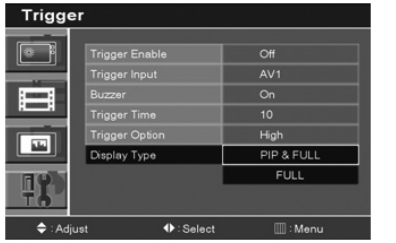




1) Press the up(▲) or down(▼) button to select the Trigger Option.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Trigger Option setting.
4) Press the Menu button to save.
   · N/C (Normal Closed) : When Trigger cable is opened, Trigger function is activated.
   · N/O (Normal Opened) : When Trigger cable is closed, Trigger function is activated.
   · High : When Trigger signal is high(2~5[V]), Trigger function is activated.
   · Low : When Trigger signal is low(0~0.6[V]), Trigger function is activated.

6-6. Display Type



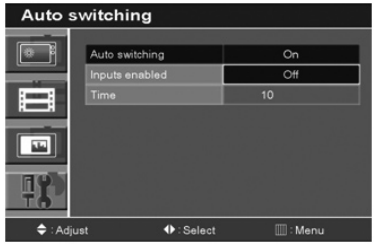


1) Press the up(▲) or down(▼) button to select the Display Type.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Display Type option.
4) Press the Menu button to save.
   · PIP & FULL : If the type of image in the trigger input is different with we are watching, trigger image will be displayed as a small screen at a corner which you selected in PIP menu. Otherwise it will be displayed as a full screen.
   · FULL : Trigger image will be displayed as a full screen.
   · The Type of Image 1 : AV1, AV2 or S-Video, The Type of Image 2 : Component, HDMI, DVI or PC.

7. Auto switching

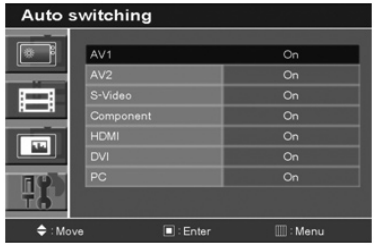
1) Press the up(▲) or down(▼) button to select the Auto switching.
2) Press the right(▶) or SOURCE/SELECT button.

7-1. Auto switching On/Off

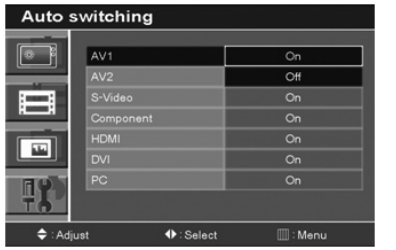


1) Press the right(▶) or SOURCE/SELECT button.
2) Press the up(▲) or down(▼) button to select the On or Off .
3) Press the Menu button to save.

7-2. Auto switching Inputs enabled



1) Press the up(▲)or down(▼) button to select the Inputs enabled.
2) Press the right(▶) or SOURCE/SELECT button.
3) Press the up(▲) or down(▼) button to select the Input.
4) Press the right(▶) or SOURCE/SELECT button.

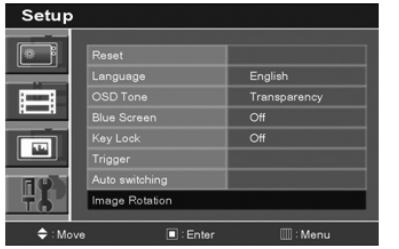


1) Press the up(▲) or down(▼) button to select the On or Off.
2) Press the Menu button to save.

7-3. Auto switching Time

1) Press the up(▲) or down(▼) button to select the Time.
2) Press the left(◀) or right(▶) button to adjust the Time setting.
3) Press the MENU button to save.

8. Image Rotation



1) Press the up(▲) / down(▼) button to select the Image Rotation.
2) Press the right(▶) or ENTER button.

※ Image Rotation support Image Rotation prevents Image persistence.
The displayed image slightly moves when this function is On.

※ Image persistence : When an LCD panel is continuously displaying the same image(graphic) for a long period of time, a trace of the image can remain visibly. Image persistence is not a product defect, and all LCD products are subject to image persistence.

8-1. Image Rotation On/Off

1) Press the right(▶) or SOURCE/SELECT button.
2) Press the up(▲) or down(▼) button to select the On or Off .
3) Press the Menu button to save.

8-2. Image Rotation Min(Time control)

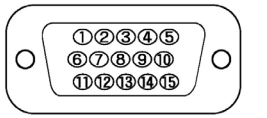
1) Press the up(▲) or down(▼) button to select the Time.
2) Press the left(◀) or right(▶) button to adjust the Time setting.
3) Press the MENU button to save.

D-SUB CONNECTOR PIN ASSIGNMENTS

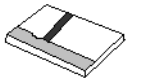
• PIN ASSIGNMENTS

Pin 1	RED VIDEO	Pin 9	
Pin 2	GREEN VIDEO	Pin10	SIGNAL CABLE DETECT
Pin 3	BLUE VIDEO	Pin 11	GROUND
Pin 4	GROUND	Pin 12	SDA(for DDC)
Pin 5	GROUND	Pin 13	H-SYNC.(or H+V SYNC.)
Pin 6	RED GROUND	Pin 14	V-SYNC.
Pin 7	GREEN GROUND	Pin 15	SCL(for DDC)
Pin 8	BLUE GROUND		

D-SUB



• ACCESSORY



1. User's Manual

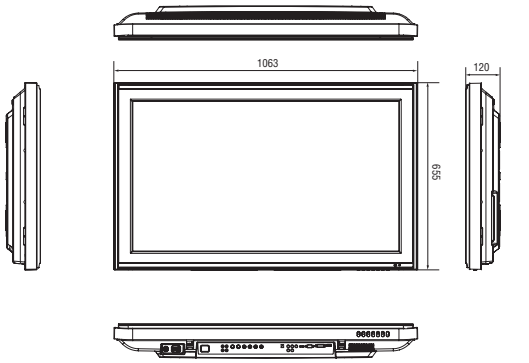
2. Power Cord

3. Remote Controller & Batteries

4. VGA Cable

5. Trigger Cable

Dimension



POWER MANAGEMENT

This monitor features a power management system to “power down” upon receipt of the VESA DPMS(The display power management signaling) from a VESA DPMS video card.
The VESA DPMS-compliant video card performs this signaling system through not sending horizontal, vertical, or sync signal.
This monitor enters an appropriate mode through identifying each of the three modes of the signaling system.

• POWER CONSUMPTION : 230W(WXGA) / 250W(WUXGA)

• LED INDICATOR

The power management feature of the monitor is comprised of four stages: On(Green), Standby, Suspend, Active off(Red on/off 1 sec) and Unsupported mode(Green).

MODE	LED COLOR	MONITOR OPERATION
ON	GREEN	Normal Operation
STANDBY	RED ON/OFF 1 SEC	Screen blanks after preset idle time And some electronic circuits or all Circuitry in the monitor shut down.
SUSPEND		
ACTIV OFF		
UNSUPPORTES MODE	GREEN	Normal operation but the on screen Display will show error massage
POWER OFF	RED	Not Operation

SPECIFICATIONS

	STM-42L
LCD- Type	42˝ Diagonal AM-TFT(Active-Matrix)
	Pixel pitch(mm) : 0.227mm(H) x 0.681mm(V)
	BRIGHTNESS : 500cd/m^2(Typical)
	CONTRAST RATIO : 1100 :1(Typical)
	VIEWING ANGLE : 178°/178°(H/V)
	RESPONSE TIME : 5msec(G-to-G)
RESOLUTION (H x V)	1366X768 @60Hz
FREQUENCY	HORIZONTAL : 31- 64KHz VERTICAL : 56-75Hz
INPUT SIGNAL	VIDEO(2ch input 1.0Vp-p, 75Ω terminated, loop-through out)
	S-VIDEO(1ch input (Y/C), loop-through out)
	COMPONENT(Y,Pb,Pr, Sound L/R)
	DVI D(Digital Video Interface)
	HDMI(High Definition Multimedia Interface)
	PC RGB
	AV(composite) Sound in/Out
	PC Stereo Sound
	Audio Out
ACTIVE DISPLAY AREA (W x H)	930mm X 523mm (36.61” X 20.59”)
PACKING DIMENSIONS (W x H x D)	1300mm X 885mm X 390mm (51.18” X 34.84” X 15.35”)
WEIGHT	Net Weight : 31kg (68.34 lbs)
	Gross Weight : 35kg (77.16 lbs)
ELECTRICAL RATINGS	AC100-240V,50/60Hz (Auto Switching)

• **NOTE :** Technical specifications are subject to change without notice.

TROUBLESHOOTING GUIDE

TROUBLE	TROUBLESHOOTING TIP
No image on display screen	1. Check that power cord of the monitor have been connected securely into wall outlet or grounded extension cable or strip. 2. Power switch should be in the ON position and LED is lit. 3. Check that the Brightness and / or the Contrast adjustments of the Display haver not been turned down to minimum levels.
"Check Input Signal" message on screen	1. The signal cable should be completely connected to the video card / computer 2. The video card should be completely seated in its slot and the computer is switched ON.
Display image is not centered, too small or toolarge in PC mode	Push the down key in front side or Auto key in remocon.
Vertical or Horizontal noise is present in the picture	Adjust Clock and Phase in the OSD.

CORRECT DISPOSAL OF BATTERIES IN THIS PRODUCT

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols *Hg*, *Cd* or *Pb* indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

MEMO

MEMO

MEMO

SAMSUNG TECHWIN

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